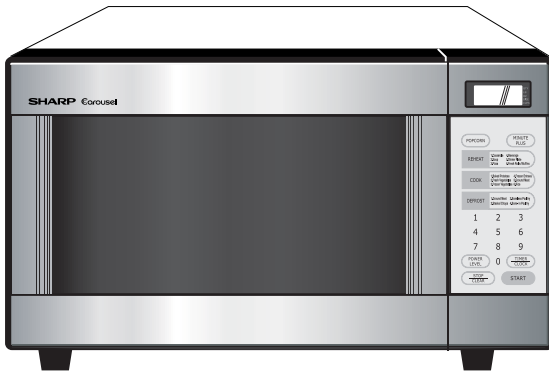


SHARP SERVICE MANUAL

S6211R316FPST

MICROWAVE OVEN



MODELS **R-314FS** **R-316FS**

In the interest of user-safety the oven should be restored to its original condition and only parts identical to those specified should be used.

WARNING TO SERVICE PERSONNEL: Microwave ovens contain circuitry capable of producing very high voltage and current, contact with following parts may result in a severe, possibly fatal, electrical shock. (High Voltage Capacitor, High Voltage Power Transformer, Magnetron, High Voltage Rectifier Assembly, High Voltage Harness etc..)

This is a supplemental Service Manual for Models R-314FS and R-316FS. These model are quite similar to base model R-301FW. Use this supplemental manual together with the Base Model Service Manual (Refer No. is S2204R301FPW/) for complete operation, service information, etc..

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SHARP CORPORATION

This document has been published to be used for after sales service only.

The contents are subject to change without notice.

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- (a) Do not operate or allow the oven to be operated with the door open.
- (b) Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs as necessary: (1) interlock operation, (2) proper door closing, (3) seal and sealing surfaces (arcing, wear, and other damage), (4) damage to or loosening of hinges and latches, (5) evidence of dropping or abuse.
- (c) Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, wave guide or transmission line, and cavity for proper alignment, integrity, and connections.
- (d) Any defective or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.
- (e) A microwave leakage check to verify compliance with the Federal Performance Standard should be performed on each oven prior to release to the owner.

BEFORE SERVICING

Before servicing an operative unit, perform a microwave emission check as per the Microwave Measurement Procedure outlined in this service manual.

If microwave emissions level is in excess of the specified limit, contact SHARP ELECTRONICS CORPORATION immediately @1-800-237-4277.

If the unit operates with the door open, service person should 1) tell the user not to operate the oven and 2) contact SHARP ELECTRONICS CORPORATION and Food and Drug Administration's Center for Devices and Radiological Health immediately.

Service personnel should inform SHARP ELECTRONICS CORPORATION of any certified unit found with emissions in excess of $4\text{mW}/\text{cm}^2$. The owner of the unit should be instructed not to use the unit until the oven has been brought into compliance.

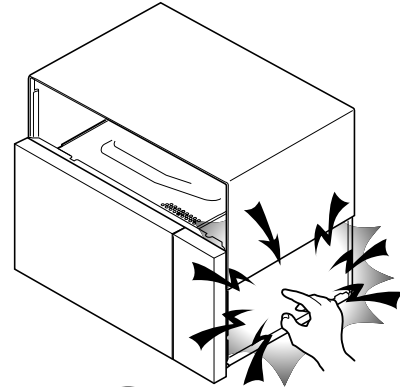
WARNING TO SERVICE PERSONNEL

Microwave ovens contain circuitry capable of producing very high voltage and current, contact with following parts may result in a severe, possibly fatal, electrical shock.

(Example)


High Voltage Capacitor, High Voltage Power Transformer, Magnetron, High Voltage Rectifier Assembly, High Voltage Harness etc..

Read the Service Manual carefully and follow all instructions.



**Don't Touch !
Danger High Voltage**

Before Servicing

1. Disconnect the power supply cord , and then remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.

WARNING: RISK OF ELECTRIC SHOCK. DISCHARGE THE HIGH-VOLTAGE CAPACITOR BEFORE SERVICING.

The high-voltage capacitor remains charged about 60 seconds after the oven has been switched off. Wait for 60 seconds and then short-circuit the connection of the high-voltage capacitor (that is the connecting lead of the high-voltage rectifier) against the chassis with the use of an insulated screwdriver.

Whenever troubleshooting is performed the power supply must be disconnected. It may, in some cases, be necessary to connect the power supply after the outer case has been removed, in this event,

1. Disconnect the power supply cord, and then remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.
4. Disconnect the leads to the primary of the power transformer.
5. Ensure that the leads remain isolated from other components and oven chassis by using insulation tape.
6. After that procedure, reconnect the power supply cord.

When the testing is completed,

1. Disconnect the power supply cord, and then remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.
4. Reconnect the leads to the primary of the power transformer.
5. Reinstall the outer case (cabinet).
6. Reconnect the power supply cord after the outer case is installed.
7. Run the oven and check all functions.

After repairing

1. Reconnect all leads removed from components during testing.
2. Reinstall the outer case (cabinet).
3. Reconnect the power supply cord after the outer case is installed.
4. Run the oven and check all functions.

Microwave ovens should not be run empty. To test for the presence of microwave energy within a cavity, place a cup of cold water on the oven turntable, close the door and set the power to HIGH and set the microwave timer for two (2) minutes. When the two minutes has elapsed (timer at zero) carefully check that the water is now hot. If the water remains cold carry out **Before Servicing** procedure and re-examine the connections to the component being tested.

When all service work is completed and the oven is fully assembled, the microwave power output should be checked and a microwave leakage test should be carried out.

MICROWAVE MEASUREMENT PROCEDURE

A. Requirements:

- 1) Microwave leakage limit (Power density limit): The power density of microwave radiation emitted by a microwave oven should not exceed $1\text{mW}/\text{cm}^2$ at any point 5cm or more from the external surface of the oven, measured prior to acquisition by a purchaser, and thereafter (through the useful life of the oven), $5\text{mW}/\text{cm}^2$ at any point 5cm or more from the external surface of the oven.
- 2) Safety interlock switches:
Primary interlock relay and door sensing switch shall prevent microwave radiation emission in excess of the requirement as above mentioned, secondary interlock switch shall prevent microwave radiation emission in excess of $5\text{mW}/\text{cm}^2$ at any point 5cm or more from the external surface of the oven.

B. Preparation for testing:

Before beginning the actual measurement of leakage, proceed as follows:

- 1) Make sure that the actual instrument is operating normally as specified in its instruction booklet.

Important:

Survey instruments that comply with the requirement for instrumentation as prescribed by the performance standard for microwave ovens, 21 CFR 1030.10(c)(3)(i), must be used for testing.

- 2) Place the oven tray in the oven cavity.
- 3) Place the load of $275\pm 15\text{ ml}$ (9.8 oz) of tap water initially at $20\pm 5^\circ\text{C}$ (68°F) in the center of the oven cavity.
The water container shall be a low form of 600 ml (20 oz) beaker with an inside diameter of approx. 8.5 cm (3-1/2 in.) and made of an electrically nonconductive material such as glass or plastic.
The placing of this standard load in the oven is important not only to protect the oven, but also to insure that any leakage is measured accurately.
- 4) Set the cooking control on Full Power Cooking Mode.
- 5) Close the door and select a cook cycle of several minutes. If the water begins to boil before the survey is completed, replace it with 275 ml of cool water.

C. Leakage test:

Closed-door leakage test (microwave measurement)

- 1) Grasp the probe of the survey instrument and hold it perpendicular to the gap between the door and the body of the oven.
- 2) Move the probe slowly, not faster than 1 in./sec. (2.5 cm/sec.) along the gap, watching for the maximum indication on the meter.
- 3) Check for leakage at the door screen, sheet metal seams and other accessible positions where the continuity of the metal has been breached (eg., around the switches, indicator, and vents).
While testing for leakage around the door pull the door away from the front of the oven as far as is permitted by the closed latch assembly.
- 4) Measure carefully at the point of highest leakage and make sure that the highest leakage is no greater than $4\text{mW}/\text{cm}^2$, and that the secondary interlock switch and the primary interlock relay do turn the oven OFF before any door movement.

NOTE: After servicing, record data on service invoice and microwave leakage report.

SERVICE MANUAL

SHARP

MICROWAVE OVEN

R-314FS/ R-316FS

FOREWORD

This Manual has been prepared to provide Sharp Electronics Corp. Service Personnel with Operation and Service Information for the SHARP MICROWAVE OVENS, R-314FS and R-316FS.

The models R-314FS and R-316FS are quite similar to base model R-301FW (Refer No. is S2204R301FPW/).

It is recommended that service personnel carefully study the entire text of this manual and the base model's manual so that they will be qualified to render satisfactory customer service.

Check the interlock switches and the door seal carefully. Special attention should be given to avoid electrical shock and microwave radiation hazard.

WARNING

Never operate the oven until the following points are ensured.

- (A) The door is tightly closed.
- (B) The door brackets and hinges are not defective.
- (C) The door packing is not damaged.
- (D) The door is not deformed or warped.
- (E) There is no other visible damage with the oven.

Servicing and repair work must be carried out only by trained service personnel.

DANGER

Certain initial parts are intentionally not grounded and present a risk of electrical shock only during servicing. Service personnel - Do not contact the following parts while the appliance is energized;

High Voltage Capacitor, Power Transformer, Magnetron, High Voltage Rectifier Assembly, High Voltage Harness;

If provided, Vent Hood, Fan assembly, Cooling Fan Motor.

All the parts marked “**” on parts list are used at voltages more than 250V.

Removal of the outer wrap gives access to voltage above 250V.

All the parts marked “Δ” on parts list may cause undue microwave exposure, by themselves, or when they are damaged, loosened or removed.

SHARP ELECTRONICS CORPORATION

SHARP PLAZA, MAHWAH,
NEW JERSEY 07430-2135

SPECIFICATION

ITEM	DESCRIPTION
Power Requirements	120 Volts / 13 Amperes 60 Hertz Single phase, 3 wire grounded
Power Output	1000 watts (IEC TEST PROCEDURE) Operating frequency of 2450MHz
Case Dimensions	Width 20-1/2" Height 11-7/8" Depth 16-3/4"
Cooking Cavity Dimensions 1.2 Cubic Feet	Width 14-3/4" Height 8-3/4" Depth 15-3/4"
Control Complement	Touch Control System Clock (1:00 - 12:59) Timer (0 - 99 min. 99 seconds) Microwave Power for Variable Cooking Repetition Rate; P-HI Full power throughout the cooking time P-90 approx. 90% of Full Power P-80 approx. 80% of Full Power P-70 approx. 70% of Full Power P-60 approx. 60% of Full Power P-50 approx. 50% of Full Power P-40 approx. 40% of Full Power P-30 approx. 30% of Full Power P-20 approx. 20% of Full Power P-10 approx. 10% of Full Power P-0 No power throughout the cooking time POPCORN pad, MINUTE PLUS pad REHEAT pad, COOK pad DEFROST pad, Number selection pads POWER LEVEL pad, TIMER/CLOCK pad STOP/CLEAR pad, START pad
Oven Cavity Light	Yes
Safety Standard	UL Listed FCC Authorized DHHS Rules, CFR, Title 21, Chapter 1, Subchapter J

GENERAL INFORMATION

GROUNDING INSTRUCTIONS

This oven is equipped with a three prong grounding plug. It must be plugged into a wall receptacle that is properly installed and grounded in accordance with the National Electrical Code and local codes and ordinances.

In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current.

WARNING: Improper use of the grounding plug can result in a risk of electric shock.

Electrical Requirements

The electrical requirements are a 120 volt 60 Hz, AC only,

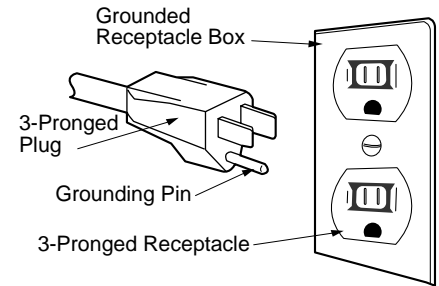
15 or 20 amp. fused electrical supply. It is recommended that a separate circuit serving only this appliance be provided. When installing this appliance, observe all applicable codes and ordinances.

A short power-supply cord is provided to reduce risks of becoming entangled in or tripping over a longer cord.

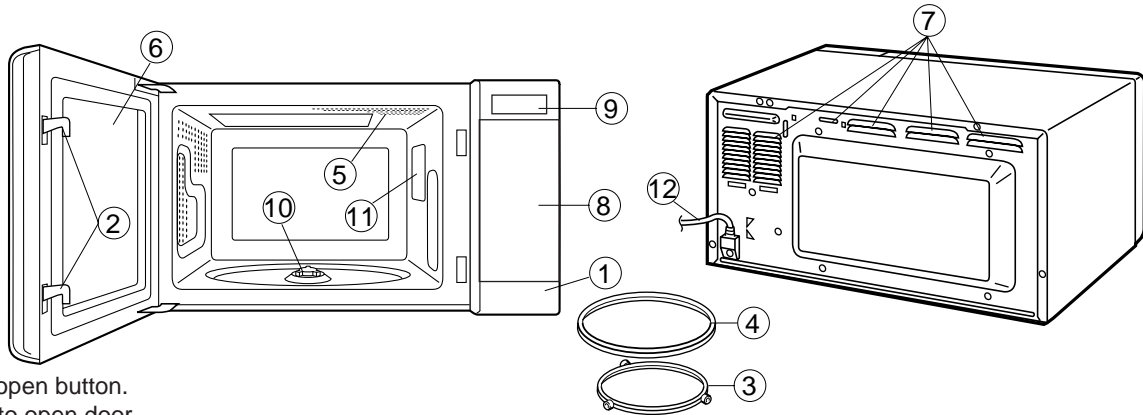
Where a two-pronged wall-receptacle is encountered, it is the personal responsibility and obligation of the customer to

contact a qualified electrician and have it replaced with a properly grounded three-pronged wall receptacle or have a grounding adapter properly grounded and polarized. If the extension cord must be used, it should be a 3-wire, 15 amp. or higher rated cord. Do not drape over a countertop or table where it can be pulled on by children or tripped over accidentally.

CAUTION: DO NOT UNDER ANY CIRCUMSTANCES CUT OR REMOVE THE ROUND GROUNDING PRONG FROM THIS PLUG.



OVEN DIAGRAM



1. Door open button.
Push to open door.
2. Door latches.
The oven will not operate unless the door is securely closed.
3. Removable turntable support.
4. Removable turntable.
The turntable will rotate clockwise or counterclockwise.
5. Oven lamp.
It will light when oven is operating or door is opened.
6. Oven door with see-through window.
7. Ventilation openings. (Rear)
8. Auto-Touch control panel.
9. Time display: Digital display, 99 minutes 99 seconds.
10. Coupling.
11. Waveguide cover.
12. Power supply cord

NOTE:

Some one-touch cooking features such as "MINUTE PLUS" are disabled after three minutes when the oven is not in use. These features are automatically enabled when the door is opened and closed or the STOP/ CLEAR pad is pressed.

TOUCH CONTROL PANEL



SCHEMATIC

NOTE: CONDITION OF OVEN

1. DOOR CLOSED
2. CLOCK APPEARS ON DISPLAY

NOTE: "★" indicates components with potential above 250V.

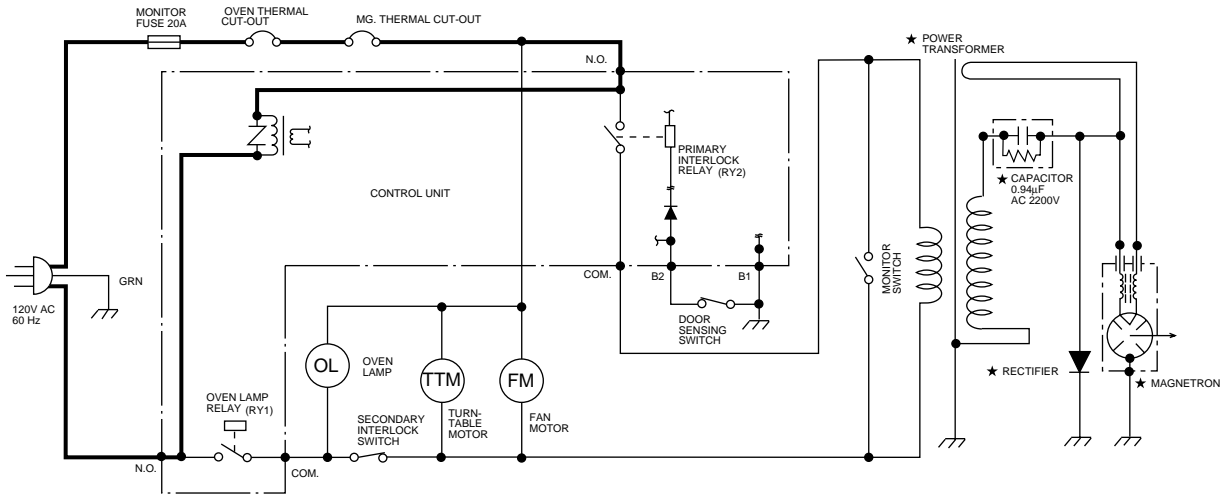


Figure O-1. Oven Schematic-Off Condition

COMPONENT REPLACEMENT AND ADJUSTMENT PROCEDURE

GRAPHIC SHEET AND MEMBRANE SWITCH REPLACEMENT

Removal

1. Disconnect the power supply cord and then remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.
4. Remove the control panel assembly, referring to chapter of CONTROL PANEL ASSEMBLY REMOVAL.
5. Remove the three (3) screws holding the control unit to the control panel frame. And remove the control unit.
6. Remove the rubber connector from the long slit on the control panel frame.
7. Tear away the graphic sheet from the control panel frame.
8. Tear away the membrane switch from the control panel frame.

Installation

1. Remove remaining adhesive on the control panel frame surfaces with a soft cloth soaked in alcohol.
2. Tear the backing paper from the new membrane switch.
3. Insert the ribbon cable of the membrane switch into the slit of the control panel frame.
4. Adjust the upper edge and right edge of the membrane switch to the small depression on the surface of the control panel frame.
5. Attach the membrane switch to the control panel frame by rubbing with a soft cloth not to scratch.

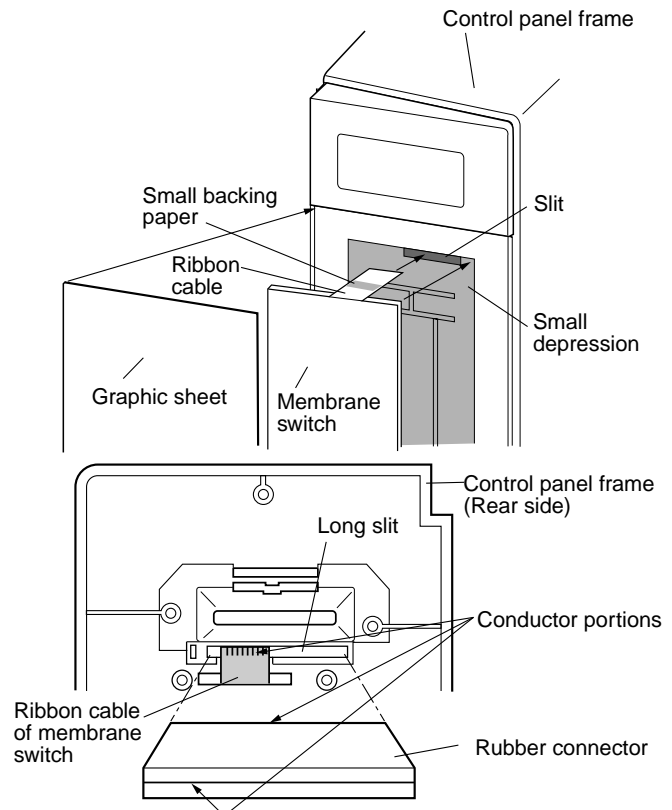


Figure C-2. Graphic Sheet and Membrane Switch Replacement

6. Tear the backing paper from the new graphic sheet.
7. Adjust the upper edge and right edge of the graphic sheet to the large depression on the surface of the control panel frame.
8. Attach the graphic sheet to the control panel frame by rubbing with a soft cloth not to scratch.
9. Tear the small backing paper from the ribbon cable of the membrane switch.
10. Attach the ribbon cable to the control panel frame rear side.

12. Place the edge of the membrane switch's ribbon cable on the lower portion of the liquid crystal display.
12. Insert the rubber connector into the long slit on the control panel frame.
13. Reinstall the control unit to the control panel frame with the three (3) screws.

NOTE:

Do not contact the conductor portion of the ribbon cable (edge) and the rubber connector directly with your fingers. This is to avoid oxidized.

DOOR REPLACEMENT

REMOVAL

1. Disconnect the power supply cord.
2. Open the door slightly.
3. Insert a putty knife (thickness of about 0.5mm) into the gap between the choke cover and door frame as shown in Figure C-4 to free engaging parts.
4. Pry the choke cover by inserting a putty knife as shown Figure C-4.
5. Release choke cover from door panel.
6. Now choke cover is free.

NOTE: When carrying out any repair to the door, do not bend or warp the slit choke (tabs on the door panel assembly) to prevent microwave leakage.

7. Release two (2) pins of door panel from two (2) holes of upper and lower oven hinges by lifting up.
8. Now, door panel with door frame is free from oven cavity.

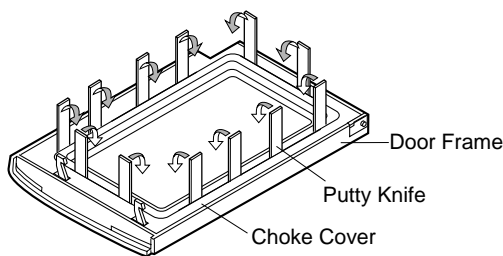


Figure C-4. Door Disassembly

9. Release door panel from eight (8) tabs of door frame.
10. Now, door panel with sealer film is free.
11. Tear sealer film from door panel.
12. Now, door panel is free.
13. Slide latch head upward and remove it from door frame with releasing latch spring from door frame and latch head.
14. Now, latch head and latch spring are free.
15. Remove door screen from door frame.
16. Now, door screen is free.
17. Unfold each eleven (11) tab of the door decoration upper and lower by using a pair of needle-nose pliers. Now the door frame is loose.

REINSTALLATION

1. Insert each eleven (11) tab of the door decoration upper and lower into each slit of the door frame by using a pair of needle-nose pliers.
2. Reinstall door screen to door frame.
3. Reinstall the latch spring to the latch head. Reinstall the latch spring to the door frame. Reinstall latch head to door frame.
4. Reinstall door panel to door frame by fitting eight (8) tabs of door frame to eight (8) holes of door panel.
5. Put sealer film on door panel. Refer to "Sealer Film" about how to handle new one.
6. Catch two (2) pins of door panel on two (2) hole of upper and lower oven hinges.
7. Reinstall choke cover to door panel by pushing.

Note: After any service to the door;

(A) Make sure that door sensing switch and secondary interlock switch are operating properly. (Refer to chapter "Test Procedures").

(B) An approved microwave survey meter should be used to assure compliance with proper microwave radiation emission limitation standards.

After any service, make sure of the following :

1. Door latch heads smoothly catch latch hook through latch holes and that latch head goes through center of latch hole.
2. Deviation of door alignment from horizontal line of cavity face plate is to be less than 1.0mm.
3. Door is positioned with its face pressed toward cavity face plate.
4. Check for microwave leakage around door with an approved microwave survey meter. (Refer to Microwave Measurement Procedure.)

Note: The door on a microwave oven is designed to act as an electronic seal preventing the leakage of microwave energy from oven cavity during cook cycle. This function does not require that door be air-tight, moisture (condensation)-tight or light-tight. Therefore, occasional appearance of moisture, light or sensing of gentle warm air movement around oven door is not abnormal and do not of themselves indicate a leakage of microwave energy from oven cavity.

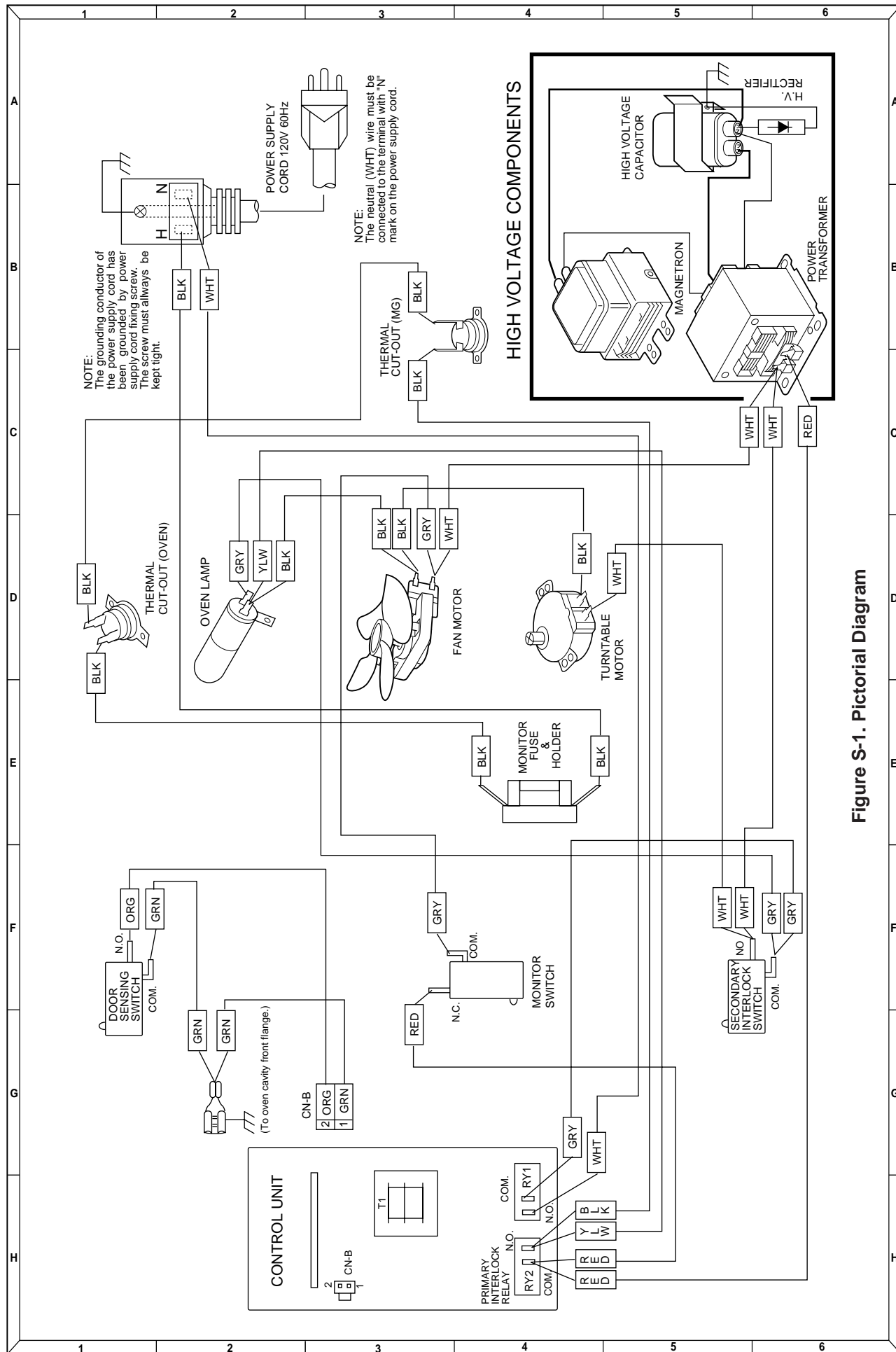


Figure S-1. Pictorial Diagram

PARTS LIST

Note: The parts marked “Δ” may cause undue microwave exposure.
The parts marked “*” are used in voltage more than 250V.

REF. NO.	PART NO.	DESCRIPTION	Q'TY	CODE
----------	----------	-------------	------	------

ELECTRIC PARTS

	1- 1	QSW-MA147WRZZ	Secondary interlock switch/door sensing switch	2	AG
	1- 1	QSW-MA137WRE0	Secondary interlock switch/door sensing switch (Interchangeable)	2	AH
	1- 2	QFSHDA009WRE0	Fuse holder	1	AG
	1- 3	FFS-BA023WRK0	Monitor fuse 20A and monitor switch(AM51620C53Y1) assembly	1	AS
	1- 4	RTHM-A127WRZZ	Thermal cut-out 125 deg.C (Oven)	1	AK
	1- 5	FACCDAA089WREZ	Power supply cord	1	AS
	1- 5	FACCDAA082WRE0	Power supply cord (Interchangeable)	1	AV
	1- 5	FACCDAA086WREZ	Power supply cord (Interchangeable)	1	AN
*	1- 6	FH-DZA092WRK0	High voltage rectifier assembly	1	AK
*	1- 6	FH-DZA088WRK0	High voltage rectifier assembly (Interchangeable)	1	AP
*	1- 7	RC-QZA211WRE0	High voltage capacitor	1	AV
*	1- 7	RC-QZA286WRZZ	High voltage capacitor (Interchangeable)	1	AV
Δ*	1- 8	RV-MZA308WRZZ	Magnetron	1	BL
Δ*	1- 8	RV-MZA288WRE0	Magnetron (Interchangeable)	1	BK
	1- 9	RMOTEA383WRE0	Fan motor	1	AV
	1- 9	RMOTEA408WRZZ	Fan motor (Interchangeable) for production use	1	--
*	1-10	RTRN-A664WRZZ	Power transformer	1	BM
	1-11	RLMPTA082WRZZ	Oven lamp	1	AL
	1-12	RMOTDA211WRE0	Turntable motor	1	AS
	1-12	RMOTDA186WRE0	Turntable motor (Interchangeable)	1	AW
	1-12	RMOTDA161WRE0	Turntable motor (Interchangeable)	1	AS
	1-12	RMOTDA229WRE0	Turntable motor (Interchangeable)	1	AQ
	1-13	RTHM-A120WRE0	Thermal cut-out 145 deg.C (MG.)	1	AH
	1-13	RTHM-A080WRE0	Thermal cut-out 145 deg.C(MG.) (Interchangeable)	1	AP

CABINET PARTS

	2- 1	GCABUA861WRPZ	Outer case cabinet	1	BE
	2- 2	GDAI-A343WRWZ	Bottom plate	1	AX
	2- 3	GLEGPA074WRE0	Foot	1	AC

CONTROL PANEL PARTS

	3- 1	FPNLCB665WRKZ	Control panel frame with key unit [R-314FS]	1	BB
	3- 1	FPNLCB666WRKZ	Control panel frame with key unit [R-316FS]	1	BB
	3- 1-1	PSHEPA850WRZZ	Graphic sheet [R-314FS]	1	AW
	3- 1-1	PSHEPA852WRZZ	Graphic sheet [R-316FS]	1	AW
	3- 1-2	QSW-KA021DRZZ	Membrane switch	1	AQ
	3- 2	FBTN-A145WRKZ	Open button assembly	1	AS
	3- 2-1	JBTN-B185WRFZ	Open button	1	AK
	3- 2-2	HDECQA229WRRZ	Button decoration	1	AU
	3- 3	MSPRCA050WRE0	Open button spring	1	AB
	3- 4	DPWBFC248WRUZ	Control unit	1	BF
	3- 5	PSHEPA851WREZ	LED sheet	1	AW
	3- 6	QCNC-A015WRZZ	Rubber connector	1	AH
	3- 7	RLCDSA108DRZZ	Liquid crystal display	1	AU
	3- 8	GMADIA116WRRZ	Display window	1	AL
	3- 9	HDECQA234WRPZ	Control panel decoration	1	AU
	3-10	XEPSD30P08XS0	Screw; 3mm x 8mm	3	AA

OVEN PARTS

	4- 1	PCUSUA235WRP0	Cushion	1	AE
	4- 2	PPACGA084WRF0	TTM packing	1	AF
Δ	4- 3	PHOK-A114WRF0	Latch hook	1	AQ
	4- 4	LBNDKA099WRW0	Capacitor holder	1	AC
	4- 5	NFANJA029WRE0	Fan blade	1	AL
	4- 6	PDUC-A790WRWZ	Fan duct	1	AZ
Δ	4- 7	*****	Oven cavity (Not a replaceable part)	1	--
	4- 8	LANGFA194WRW0	Chassis support	1	AU
	4- 9	PCUSGA560WREZ	Cushion	1	AB
	4-10	MLEVPA233WRF0	Switch lever	1	AG
	4-11	PCUSUA212WRP0	Cushion	2	AB
	4-12	NCPL-A053WRFZ	Coupling	1	AE
	4-13	PCUSUA511WRP0	Cushion	1	AC
	4-14	PCOVPA349WRE0	Waveguide cover	1	AE
	4-15	PCUSGA339WRP0	Cushion	1	AF
	4-16	PCUSGA399WRE0	Cushion	1	AF
	4-17	PCUSUA512WRP0	Cushion	1	AB
	4-18	PCUSGA321WRP0	Cushion	1	AH

REF. NO.	PART NO.	DESCRIPTION	Q'TY	CODE
4-19	PCUSUA474WRP0	Cushion	2	AC
4-20	PCUSGA562WREZ	Cushion	1	AC
4-21	PCUSUA190WRP0	Cushion	1	AC
4-20	PCUSUA191WRP0	Cushion	1	AC

DOOR PARTS

Δ	5- 1	FDORFA332WRT0	Door panel	1	BB
	5- 2	PSHEPA382WRE0	Sealer film	1	AH
Δ	5- 3	CDORFA962WRKZ	Door assembly [R-314FS]	1	BP
Δ	5- 3	CDORFA963WRKZ	Door assembly [R-316FS]	1	BP
	5- 3-1	GWAKPA869WRFZ	Door frame	1	AX
	5- 3-2	HDECQA230WRRZ	Door decoration U	1	AU
	5- 3-3	HDECQA231WRRZ	Door decoration L	1	AU
	5- 4	HPNL-A781WRRZ	Door screen [R-314FS]	1	AT
	5- 4	HPNL-A783WRRZ	Door screen [R-316FS]	1	AT
Δ	5- 5	LSTPPA188WRF0	Latch head	1	AG
	5- 6	MSPRTA187WRE0	Latch spring	1	AC
Δ	5- 7	GCOVHA405WRF0	Choke cover	1	AH
	5- 8	XCPSD40P08000	Screw : 3mm x 6mm	2	AA

MISCELLANEOUS

	6- 1	FROLPA079WRK0	Turntable support	1	AQ
	6- 2	NTNT-A051WRE0	Turntable tray	1	AR
	6- 3	FW-VZB905WRRZ	Main wire harness	1	AU
	6- 4	TINSEA930WRRZ	Instruction book	1	AP
	6- 5	PZET-A012WRE0	Terminal insulator	1	AB
	6- 6	TCAUAA265WRRZ	DHHS caution label	1	AC
	6- 7	TCAUAA254WRR0	Monitor caution label	1	AC

SCREWS,NUTS AND WASHERS

	7- 1	XHPSD40P08K00	Screw : 4mm x 8mm	6	AA
	7- 2	XHPSD30P06000	Screw : 3mm x 6mm	1	AA
	7- 3	XHTSD40P08RV0	Screw : 4mm x 8mm	4	AA
	7- 4	XHTSD40P12RV0	Screw : 4mm x 12mm	1	AA
	7- 5	XOTSD40P12RV0	Screw : 4mm x 12mm	1	AA
	7- 6	XOTSD40P08000	Screw : 4mm x 8mm	17	AA
	7- 7	XOTSF40P08000	Screw : 4mm x 8mm [R-301FK]	1	AA
	7- 7	XOTSE40P08000	Screw : 4mm x 8mm [R-301FW]	1	AA
	7- 8	LX-CZA070WRE0	Special screw (Torx tamper proof screw)	2	AC
	7- 9	LX-CZ0052WRE0	Special screw	2	AA
	7-10	XHPSD40P08000	Screw : 4mm x 8mm	4	AA

HOW TO ORDER REPLACEMENT PARTS

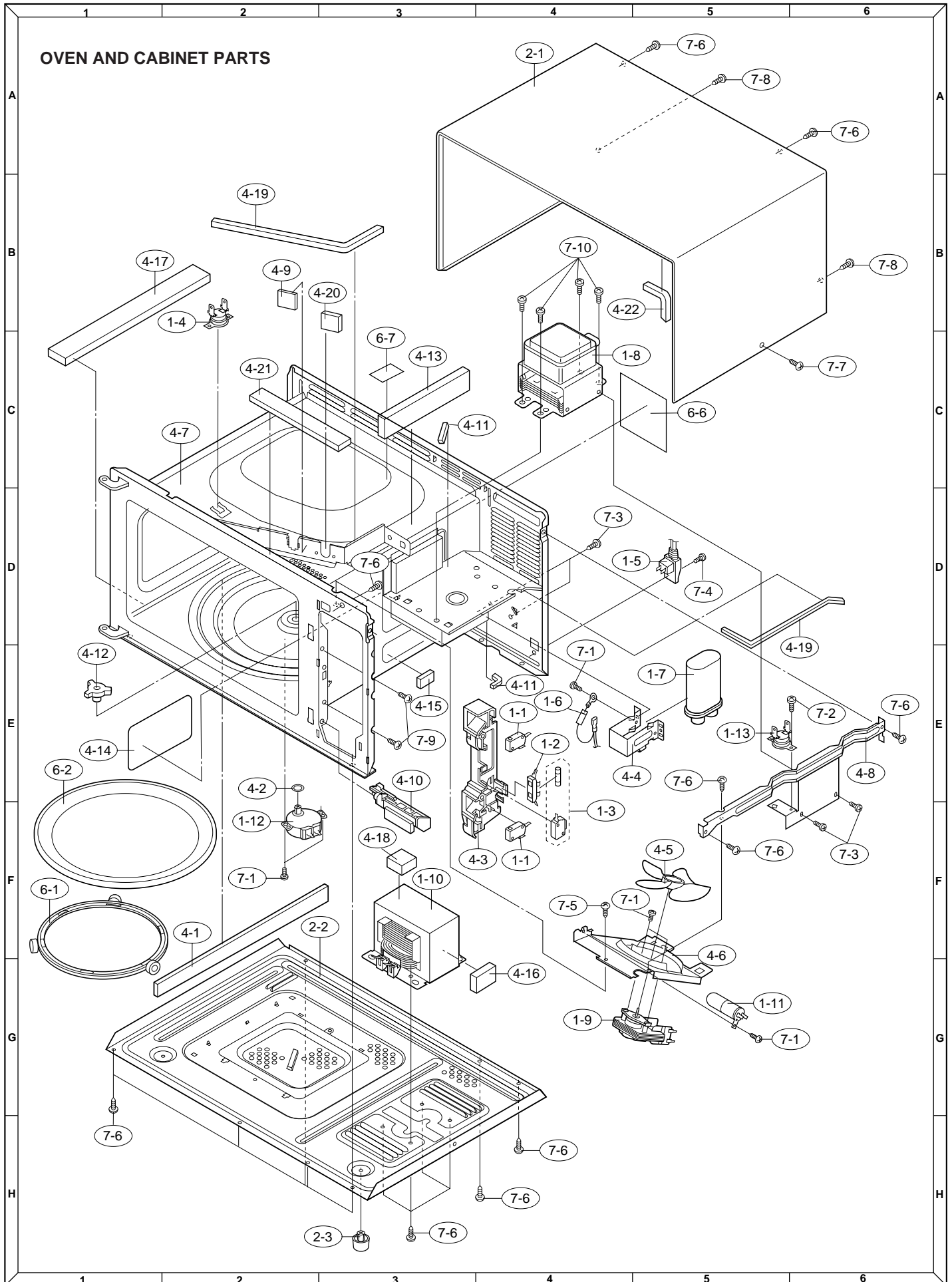
To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

Order Parts from the authorized SHARP parts Distributor for your area.

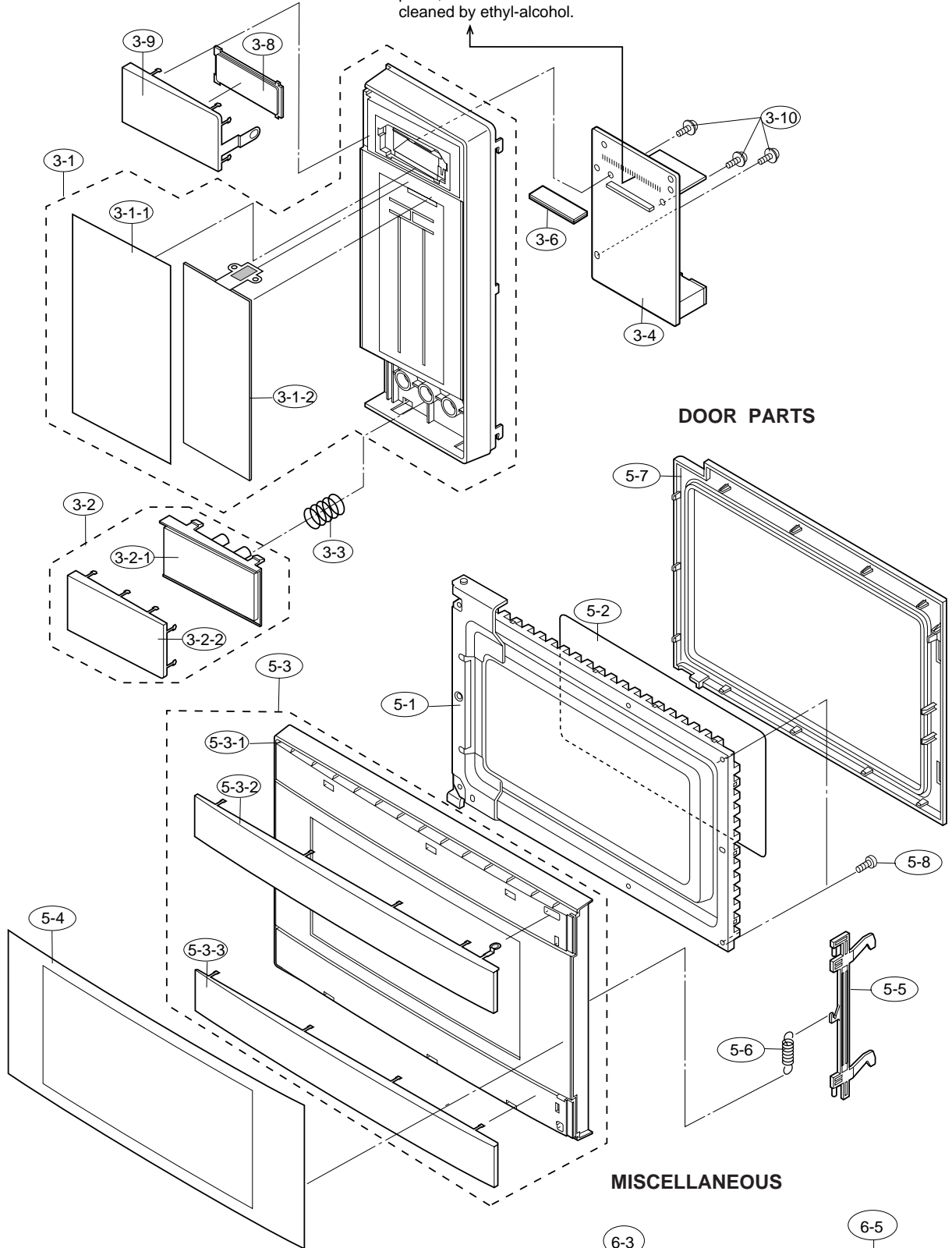
Defective parts requiring return should be returned as indicated in the Service Policy.

OVEN AND CABINET PARTS

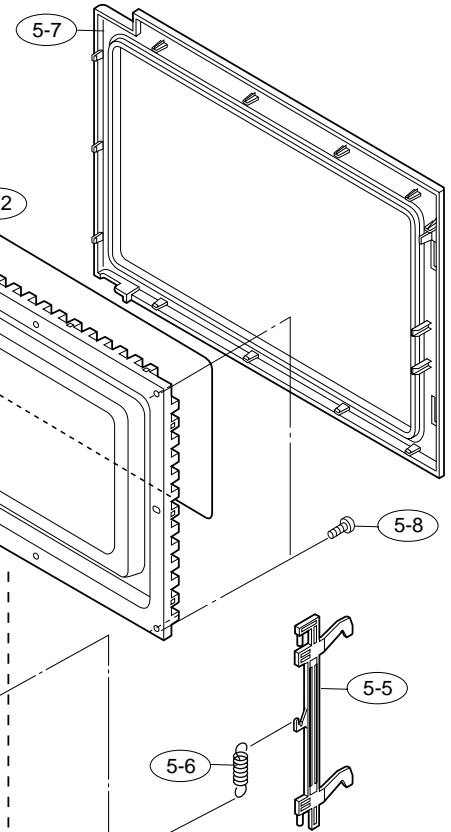


CONTROL PANEL PARTS

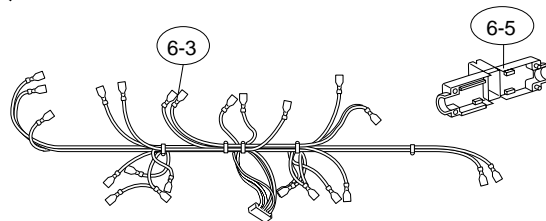
Before attaching Control unit to Control panel, foil side of Control unit must be cleaned by ethyl-alcohol.



DOOR PARTS

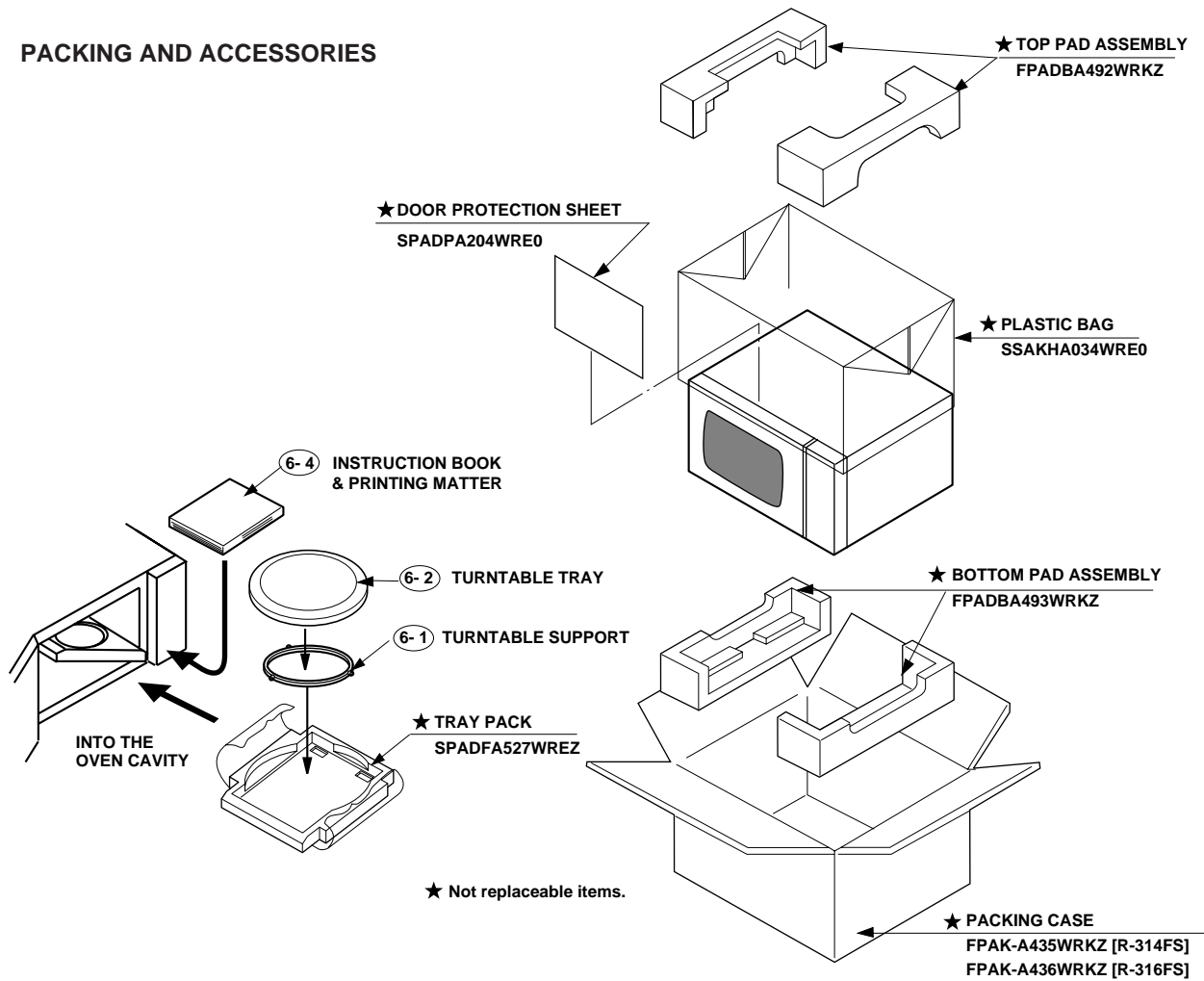


MISCELLANEOUS



Actual wire harness may be different from illustration.

PACKING AND ACCESSORIES



SHARP

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